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PTO/SB/21 (09-06) Approved for use through 03/31/2007. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Inder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 10/591,371 TRANSMITTAL Filing Date 09/01/2006 First Named Inventor **FORM RUSSWURM** Art Unit 1623 Examiner Name Unassigned (to be used for all correspondence after initial filing) **Attorney Docket Number** 3535-022 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board **Licensing-related Papers** of Appeals and Interferences Fee Attached Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a **Proprietary Information** After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer below): Extension of Time Request Forms PTO/SB/08A & PTO/SB/08B; copies Request for Refund **Express Abandonment Request** of cited references CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD **Certified Copy of Priority** Remarks Document(s) Reply to Missing Parts/ **Incomplete Application** Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Akerman Senterfitt / Customer No. 30448 Signature Printed name Nicholas J. Landau Reg. No. Date 57,120 CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of RUSSWURM, et al.

Confirmation No. 7019

Application No. 10/591,371

Examiner: Unassigned

Filed: September 1, 2006

Group Art Unit: 1623

Attorney Docket No. 3535.022

For:

METHOD FOR THE IDENTIFICATION OF SEPSIS

INFORMATION DISCLOSURE STATEMENT

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MClaules . Canda Reg. No. 5

Micholas J. Landau, Ph.D.

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56, Applicants hereby notify the U.S. Patent Office of the documents which are listed on the attached Forms PTO/SB/08A and PTO/SB/08B.

Applicants submit that the present invention is patentable over the cited references and submission of the listed documents is not intended as an admission that such documents constitute prior art against the present application. Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove the listed documents as competent references against the present application.

The following references were cited in the International Search Report (copy enclosed) of a corresponding International Application (PCT/EP2005/000336):

- 1. EP 1 270 740 A1
- 2. WO 2004/087949 A2
- 3. BARRIERE, et al., "An overview of mortality risk prediction in sepsis", Crit Care Med, 23:2, 376-393 (1995).
- 4. BOTWELL, DAVID, D. L., "Options available from start to finish for obtaining expression data by microarray", Nature Genetics Supplement, 21: 25-32 (1999).
- 5. CHINNAIYAN, et al., "Molecular Signatures of Sepsis, Multiorgan Gene Expression Profiles of Systemic Inflammation", American Journal of Pathology, 159:4, 1199-1209 (2001).
- 6. COBB, et al., "Sepsis gene expression profiling; Murine splenic compared with hepatic responses...", Crit Care Med 30:12, 2711-2 (2002).
- 7. "Microarray expression profiling: Towards an application in sepsis diagnostics", URL: http://www.sirs-lab.de/content/de/pdf/kompetenzen/deigner.pdf, (2004).
- 8. MIRA, et al., "Association of TNF2, a TNF-α Promoter Polymorphism, with Septic Shock Susceptibility and Mortality", JAMA 208:6, 561-8 (1999).
- 9. PATHAN, et al., "The Complexity of the Inflammatory Response to Meningococcal Sepsis Revealed by Gene Expression...", Crit Care Med, 30:12 Suppl. (2003).
- 10. PRUCHA, et al., "Expression Profiling: Toward an Application in Sepsis Diagnostics", Shock, 22:1 29-33 (2004).

Documents 1, 2, 5, 6, 7, and 10, were placed in category X, "document of particular relevance." Documents 9, 8, 3, 4 were placed in Category A, "document defining the general state of the art which is not considered to be of particular relevance."

The following references were cited in an examination report (copy enclosed) of a corresponding German patent application (DE 10 2004 049 397.0):

- 11. WO 2004/031412 A2
- 12. WO 03/002763 A1
- 13. WO 2004/067778 A2
- 14. SCHLAG, G., et al., "The cell in shock: the origin of multiple organ failure", Resuscitation 21:2-3, 137-80 (1991).
- 15: YU, et al., "Differential gene expression in gram-negative and gram-positive sepsis", Am J Respir Crit Care Med 169:10, 1135-43 (2004).

The following references were cited in the International Search Report (copy enclosed) of a corresponding International Application (PCT/EP2004/003419):

- 16. WO 99/40434
- 17. HELLER, et al., "Discovery and analysis of inflammatory disease-related genes using cDNA microarrays", Proc. Natl. Acad, Sci USA, 94: 2150-55 (1997).
- 18. MEMBERS OF THE ACCP/SCCM... "...Definitions for sepsis and organ failure and guidelines for the use of innovative therapies in sepsis", Crit Care Med, 20:6 864-874.
- 19. OBERHOFFER, et al., "Discriminative power of inflammatory markers for prediction of tumor necrosis...", Intensive Care Med, 26:S170-S174 (2000).
- 20. ROWE, et al., "An Array of Immunosensor for Simultaneous Detection of Clinical Analysis", Anal. Chem. 71:433-39 (1999).
- 21. WEIGAND, et al., "Gene Expression Pattern in Human Monocytes as a Surrogate Marker for Systemic Inflammatory Response Syndrome (SIRS)", Molecular Medicine, 5:192-202 (1999).

WOZNEY, et al., "Homo sapiens (clone KT2) bone morphogenetic protein-1 (BMP-1) mRNA and alternatively spliced...", Database accession no. L35279, Eur. Mol Bio Lab (1995).

Documents 19, 20, and 21 were placed in category X, "document of particular relevance." Documents 16, 17, 18, and 22 were placed in Category Y, "document of particular relevance."

The following references were cited in the International Search Report (copy enclosed) of a corresponding International Application (PCT/EP2005/008969):

- 23. US 2004/0096917 A1
- 24. DATABASE NETAFIX, "www.affymetrix.com/analysis/netaffx/probe_match.affx?netaffx=netaffx4annot" (2006).
- 25. GALDERISI, et al., "Antisense Oligonucleotides as Therapeutic Agents", Journal of Cellular Physiology 181:251-257 (1999).
- JANSEN, et al., "Antisense therapy for cancer the time of truth", The Lancet Oncology, 3:672-683 (2002).
- LIU, et al., "Gene expression profiles in human nasal polyp tissues studied by means of DNA microarray", J Allergy Clin Immunol, 114:4 783-790 (2004).
- 28. RAY, et al., "Peptide nucleic acid (PNA): its medical and biotechnical applications and promise for the future", The FASEB Journal, 14:1041-1060 (2000).
- 29. RIESEWIJK, et al., "Gene expression profiling of human endometrial receptivity on days LH+2 versus LH+7 by microarray technology", Mol Human Reprod, 9:5 253-264 (2003).
- TSUKAHARA, et al., "Gene Expression in Human Neutrophils During Activation and Priming by Bacterial Lipopolysaccharide", Journal of Cellualr Biochemistry, 89:848-861 (2003).

Attorney Docket No. 3535.022

Application No. 10/591,371 **Information Disclosure Statement** Page 5 of 5

Documents 27 and 29 were placed in category X, "document of particular relevance." Documents 23 – 26, 28 and 30 were placed in Category A, "document defining the general state

of the art which is not considered to be of particular relevance."

Applicant notes that references nos. 2, 5, 9, 10, 21 and 23 are cited in the International

Search Report for International Application No. PCT/EP2004/014310, to which this application

claims priority. A copy of the English translation of the search report is enclosed.

Applicants respectfully request that the listed documents be considered by the Examiner

and made of record in the present application and that an initialed copy of forms PTO/SB/08A and

PTO/SB/08B be returned in accordance with MPEP §609.

Certification

This Statement is being filed prior to the issuance of the first Office Action for the present

application, and this paper is thus submitted in accordance with 37 C.F.R. 1.97(b).

In view of the above certification, a fee is not required for consideration of this document.

Nevertheless, should a fee be deemed to be due by the Commissioner, such fee should be charged

to Deposit Account No. 50-0951.

Respectfully submitted,

Nicholas J. Landau, Ph.D.

Reg. No. 57,120

AKERMAN SENTERFITT

Post Office Box 3188

West Palm Beach, FL 33402-3188

Tel: 561-653-5000

Docket No. 3535-020

{WP346907;1}

PTO/SB/08A (09-06)

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Substitute for form 1449/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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(Use as many sheets as necessary)

Complete if Known

Application Number 10/591,371

Filing Date 09/01/2006

First Named Inventor RUSSWURM

Art Unit Unassigned

Examiner Name Unassigned

Attorney Docket Number 3535-022

			U. S. PATEN	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	FOREIGN PATENT DOCUMENTS						
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
		1	MM-DD-YYYY		Or Relevant Figures Appear	T ⁶	
		EP 1 270 740 A1	01-02-2003	SIRS-LAB GMBH			
		WO 2004/087949 A2	10-14-2004	SIRS-LAB GMBH			
		WO 2004/031412 A2	04-15-2004	ONCOTHERAPY SCIENCE			
		WO 03/002763 A1	01-09-2003	SIRS-LAB GMBH			
		WO 2004/067778 A2	08-12-2004	UNIV. OF SOUTH FLORIDA			
		WO 99/40434	08-12-1999	INVITROGEN			

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet	2	of	4	Attorney Docket Number	3535-022	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BARRIERE, et al., "An overview of mortality risk prediction in sepsis", Crit Care Med, 23:2, 376-393 (1995).	
		BOTWELL, DAVID, D. L., "Options available - from start to finish - for obtaining expression data by microarray", Nature Genetics Supplement, 21: 25-32 (1999).	
		CHINNAIYAN, et al., "Molecular Signatures of Sepsis, Multiorgan Gene Expression Profiles of Systemic Inflammation", American Journal of Pathology, 159:4, 1199-1209 (2001).	
		COBB, et al., "Sepsis gene expression profiling; Murine splenic compared with hepatic responses", Crit Care Med 30:12, 2711-2 (2002).	
		"Microarray expression profiling: Towards an application in sepsis diagnostics", URL: http://www.sirs-lab.de/content/de/pdf/kompetenzen/deigner.pdf, (2004).	
		MIRA, et al., "Association of TNF2, a TNF- Promoter Polymorphism, with Septic Shock Susceptibility and Mortality", JAMA 208:6, 561-8 (1999).	
		PATHAN, et al., "The Complexity of the Inflammatory Response to Meningococcal Sepsis Revealed by Gene Expression", Crit Care Med, 30:12 Suppl. (2003).	
		PRUCHA, et al., "Expression Profiling: Toward an Application in Sepsis Diagnostics", Shock, 22:1 29-33 (2004).	
		SCHLAG, G., et al., "The cell in shock: the origin of multiple organ failure", Resuscitation 21:2-3, 137-80 (1991).	
		YU, et al., "Differential gene expression in gram-negative and gram-positive sepsis", Am J Respir Crit Care Med 169:10, 1135-43 (2004).	
			

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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 3 of 4	Attorney Docket Number	3535-022		

	•	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HELLER, et al., "Discovery and analysis of inflammatory disease-related genes using cDNA microarrays", Proc. Natl. Acad, Sci USA, 94: 2150-55 (1997).	
-		MEMBERS OF THE ACCP/SCCM "Definitions for sepsis and organ failure and guidelines for the use of innovative therapies in sepsis", Crit Care Med, 20:6 864-874 (1992).	
		OBERHOFFER, et al., "Discriminative power of inflammatory markers for prediction of tumor necrosis", Intensive Care Med, 26:S170-S174 (2000).	
		ROWE, et al., "An Array of Immunosensor for Simultaneous Detection of Clinical Analysis", Anal. Chem. 71:433-39 (1999).	
		WEIGAND, et al., "Gene Expression Pattern in Human Monocytes as a Surrogate Marker for Systemic Inflammatory Response Syndrome (SIRS)", Molecular Medicine, 5:192-202 (1999).	
W		WOZNEY, et al., "Homo sapiens (clone KT2) bone morphogenetic protein-1 (BMP-1) mRNA and alternatively spliced", Database accession no. L35279, Eur. Mol Bio Lab (1995).	
		DATABASE NETAFIX, "www.affymetrix.com/analysis/netaffx/probematch/probe_match.affx?netaffx=netaffx4_annot" (2006).	
		GALDERISI, et al., "Antisense Oligonucleotides as Therapeutic Agents", Journal of Cellular Physiology 181:251-257 (1999).	
		JANSEN, et al., "Antisense therapy for cancer - the time of truth", The Lancet Oncology, 3:672-683 (2002).	
		LIU, et al., "Gene expression profiles in human nasal polyp tissues studied by means of DNA microarray", J Allergy Clin Immunol, 114:4 783-790 (2004).	

Examiner	Date	
Signature	Considered	

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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO	Complete if Known		
Odositate for form 1440// 10	Application Number	10/591,371	
INFORMATION DISCLOSURE	Filing Date	09/01/2006	
STATEMENT BY APPLICANT	First Named Inventor	RUSSWURM	
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Sheet 4 of 4	Attorney Docket Number	3535-022	

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		RAY, et al., "Peptide nucleic acid (PNA): its medical and biotechnical applications and promise for the future", The FASEB Journal, 14:1041-1060 (2000).	
		RIESEWIJK, et al., "Gene expression profiling of human endometrial receptivity on days LH+2 versus LH+7 by microarray technology", Mol Human Reprod, 9:5 253-264 (2003).	
		TSUKAHARA, et al., "Gene Expression in Human Neutrophils During Activation and Priming by Bacterial Lipopolysaccharide", Journal of Cellualr Biochemistry, 89:848-861 (2003).	
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